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1 [Content management: Design and implementation of a distributed content management system](#)
 C. D. Cranor, R. Ethington, A. Sehgal, D. Shur, C. Sreenan, J. E. van der Merwe
 June 2003
Proceedings of the 13th international workshop on Network and operating systems support for digital audio and video
 Publisher: ACM Press
 Full text available: [pdf \(556.65 KB\)](#)
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The convergence of advances in storage, encoding, and networking technologies has brought us to an environment where huge amounts of continuous media content is routinely stored and exchanged between network enabled devices. Keeping track of (or managing) such content remains challenging due to the sheer volume of data. Storing "live" continuous media (such as TV or radio content) adds to the complexity in that this content has no well defined start or end and is therefore cumbersome to deal with ...

Keywords: continuous media storage, distributed content management

2 [Sense'n respond solutions: Reducing business surprises through proactive, real-time sensing and alert management](#)
 Mitchell A. Cohen, Jakka Sairamesh, Mao Chen
 June 2005
Proceedings of the 2005 workshop on End-to-end, sense-and-respond systems, applications and services EESR '05
 Publisher: USENIX Association
 Full text available: [pdf \(556.65 KB\)](#)
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OEMs need to transform the way they do business in order to ensure better quality of products and services. Crucial failure symptom information is lost between the end consumers of products and the manufacturers. Manufacturers have access to this information but are typically unable to handle its volume in a timely fashion. However, using this data properly can result in diminished labor time in issue resolution, decreased warranty costs for manufacturers and improved customer retention. In this ...

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1 [Feasibility of a serverless distributed file system deployed on an existing set of desktop PCs](#)

William J. Bolosky, John R. Douceur, David Ely, Marvin Theimer
June 2000 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2000 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '00**, Volume 28 Issue 1

Publisher: ACM Press
Full text available: [pdf\(45.03 KB\)](#) Additional information: [Full citation](#), [abstract](#), [references](#), [related](#), [index terms](#)

We consider an architecture for a serverless distributed file system that does not assume mutual trust among the client computers. The system provides security, availability, and reliability by distributing multiple encrypted replicas of each file among the client machines. To assess the feasibility of deploying this system on an existing desktop infrastructure, we measure and analyze a large set of client machines in a commercial environment. In particular, we measure and report results on ...

Keywords: analytical modeling, availability, feasibility analysis, personal computer usage data, reliability, security, serverless distributed file system architecture, trust, workload characterization

2 [Self-assessment procedure IX: a self-assessment procedure dealing with ethics in computing](#)

Donn B. Parker
March 1982 **Communications of the ACM**, Volume 25 Issue 3

Publisher: ACM Press
Full text available: [pdf\(1.41 MB\)](#) Additional information: [Full citation](#), [references](#), [abstract](#)

3 [Capacity planning for MVS computer systems](#)

H. Pat Artis
December 1979 **ACM SIGMETRICS Performance Evaluation Review**, Volume 8 Issue 4

Publisher: ACM Press
Full text available: [pdf\(1.44 MB\)](#) Additional information: [Full citation](#), [abstract](#), [references](#)

The current status of an implementation of a methodology relating load, capacity and service for IBM MVS computer systems is presented. This methodology encompasses systems whose workloads include batch, time sharing and transaction processing. The implementation includes workload classification, mix representation and analysis, automatic benchmarking, and exhaust point forecasting.

4 [Trustworthy 100-year digital objects: durable encoding for when it's too late to ask](#)

H. M. Gladney, R. A. Lorie
July 2005 **ACM Transactions on Information Systems (TOIS)**, Volume 23 Issue 3

Publisher: ACM Press
Full text available: [pdf\(1.04 MB\)](#) Additional information: [Full citation](#), [abstract](#), [references](#), [index terms](#)

How can an author store digital information so that it will be reliably intelligible, even years later when he or she is no longer available to answer questions? Methods that *might* work are not good enough; what is preserved today should be reliably intelligible whenever someone asks it. Prior proposals fail because they generally confound saved data with irrelevant details of today's information technology---details that are difficult to define, extract, and save completely and accurate ...

Keywords: Long-term digital preservation, encoding